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[Claims only, as requested]

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Technical Disclosure Section

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ACTIVATED CARBON REGENERATION WATER PURIFIER

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[There are no amendments to this patent.]

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Claims

1. An activated carbon regenerating water purifier, characterized in that it is provided with: an activated carbon container which houses activated carbon and through which tap water flows; an electric heater which heats the aforementioned activated carbon container to reduce bacteria, and regenerating the activated carbon; a main power circuit which supplies power to the aforementioned electric heater; a power transmission control means which controls the transmission of power from the aforementioned main power circuit to the electric heater; a water

flow detection means which detects the flow of water to the aforementioned activated carbon container; a reporting means; a control circuit which monitors the output of the aforementioned main power circuit and the water flow detection means, controlling the power transmission control means as well as the reporting means; and a backup power circuit which supplies power to the control circuit; and when the power to the aforementioned main control circuit is not on and the flow of water to the activated carbon container is detected by the aforementioned water flow detection means, the aforementioned control circuit operates the aforementioned reporting means with power from the backup power circuit.

2. Activated carbon regenerating water purifier based on Claim 1, characterized in that when power is turned on to the main power circuit, the aforementioned control circuit periodically reduces bacteria in the activated carbon by periodically transmitting electricity to the electric heater at a prescribed interval by means of the power transmission control means, and after the power to the main power circuit has been turned on, the aforementioned periodic reduction of bacteria in the aforementioned activated carbon has not been completed, and the aforementioned water flow detection means detects the flow of water to the activated carbon container, the aforementioned control circuit operates the aforementioned reporting means, informing the user that the periodic reduction of bacteria in the activated carbon has not been completed.

3. Activated carbon regenerating water purifier based on Claim 1 or 2, characterized in that there is further provided a display means, controlled by the aforementioned control circuit, which displays a recommendation to reduce the bacteria in the

activated carbon when the main control circuit turns on the power to the main power circuit.

4. Activated carbon regenerating water purifier based on Claim 1, characterized in that when the power to the aforementioned main power circuit has been turned on, the aforementioned control circuit automatically reduces bacteria in the activated carbon by transmitting electricity to the electric heater by means of the aforementioned power transmission control means.

5. Water purifier based on any of Claims 1-4, characterized in that the aforementioned water flow detection means is a pressure sensor which responds to the pressure of the water flowing through the activated carbon container.

6. Water purifier based on any of Claims 1-4, characterized in that the aforementioned water flow detection means is a flow volume sensor which responds to the flow of the water flowing through the activated carbon container.

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